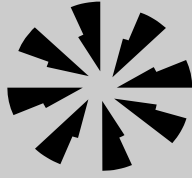


USER MANUAL

61301604063 Rev. A



SERIES 1750 AUTOMATIC TYPE TUNNEL BEDDING DISPENSERS



USER MANUAL



SERIES 1750

AUTOMATIC TYPE

TUNNEL BEDDING

DISPENSERS

Getinge/Castle, Inc.

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USER MANUAL 61301604063

Rev. A (09/25/2000)—First release

Related Publications:

Customer Manual—keyed to the customer's specific serial number

DESCRIPTION OF SYMBOLS & NOTES IN MANUAL

The following symbols with related notes appear in this manual.



“Warning” notes alert the user to the possibility of personal injury.



“Caution” notes alert the user to the possibility of damage to the equipment.



“Notes” alert the user to pertinent facts and conditions.



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Table of Contents

Safety Features

WARNINGS SUMMARY	vii
PERSONNEL SAFETY	vii
Load Conveyor Clutch	vii
Load Hopper Safety Shut-off	vii
Top Access Panel Safety Shut-off	vii
LABELS	viii

Section 1 General Description

INTRODUCTION	1-1
Configurations	1-1
Application	1-1
EXTERIOR COMPONENTS	1-2
Access Panels	1-3
Automatic Conveyor Stop (option)	1-3
Control Panel	1-3
Conveyor	1-3
Conveyor Drive Motor	1-3
Dispenser Drive Motor	1-3
Exhaust Vent	1-3
Hopper Lid	1-3
Mains Disconnect	1-3
Storage Hopper	1-3
Top Panel	1-3
Water Collection Area	1-3
INTERIOR COMPONENTS	1-4
Dispenser Drive (not shown)	1-4
Hopper Safety Gate	1-4
PROCESSING DESCRIPTION	1-5
STANDARD FEATURES	1-6
All Stainless Steel Construction	1-6
Hopper Capacity	1-6
Easy Hopper Loading	1-6
Automatic Dispensing	1-6
Operator Control Panel	1-6
Powered Roller Conveyor System	1-6
Water Collection Area With Debris Screen	1-6
Cleanout Access Ports	1-6
Exhaust	1-6

OPTIONS	1-7
Automatic Conveyor Stop	1-7
Dust Collection System	1-7
Right Service Side Installation	1-7
Standards And Codes	1-7

Section 2 The Control Panel

INTRODUCTION	2-1
CONTROL PANEL	2-2
Switches	2-2
POWER	2-2
START	2-2
EMERGENCY STOP	2-2
ADJUSTABLE SPEED—DISPENSER DRIVE	2-3
DISPENSER DRIVE ON/OFF	2-3
CONVEYOR DRIVE ON/OFF	2-3
DISPENSER DRIVE REVERSE/FORWARD	2-3
DUST COLLECTOR (option)	2-3
Indicators	2-3
POWER	2-3
CONVEYOR FULL	2-3
DISPENSER DRIVE ON	2-3
CONVEYOR DRIVE ON	2-3
DUST COLLECTOR ON (option)	2-4
EMERGENCY STOP	2-4

Section 3 Operating Instructions

PREPARING	3-1
Daily Checklist	3-1
Compatible Bedding Types*	3-1
Refilling The Hopper	3-2
SETTING	3-3
Cages For Use Today	3-3
Cages For Use Later	3-3
OPERATING	3-4
Start-up	3-4
Operation	3-4
CONVEYOR FULL	3-4
End Of Daily Operation	3-4
EMERGENCIES	3-5
Emergency Stop	3-5
EMERGENCY STOP	3-5
POWER	3-5

Emergency Power Shutoff	3-5
TURNING OFF ELECTRICAL POWER	3-5

Section 4 Maintenance

GENERAL MAINTENANCE SCHEDULE	4-1
RECOMMENDED SPARE PARTS LIST	4-3
Consumable Stock	4-3
Spare Parts	4-3

Section 5 Troubleshooting

TROUBLESHOOTING	5-1
TO CLEAR THE DISPENSER DRIVE	5-2

Section 6 Installation Instructions

INTRODUCTION	6-1
INSTALLATION OPTIONS	6-1
FACILITY REQUIREMENTS	6-1
TECHNICAL DATA	6-2
Service Requirements	6-2
General Notes On Utilities	6-2
NOTE 1—ELECTRICAL CONNECTION	6-2
NOTE 2—EXHAUST SYSTEM	6-2
UNCRATING AND INSPECTION	6-3
Uncrating & Equipment Inspection	6-3
INSTALLATION	6-3
Equipment Location	6-3
Leveling The Machine	6-4
Utilities	6-4
Electrical	6-4
STARTUP	6-5
CHECK-OUT	6-5
Fill the hopper	6-5
Run the unit	6-5

Section 7 Options

INTRODUCTION	7-1
MOST COMMON OPTIONS	7-2
Dust Collection System	7-2
DESCRIPTION	7-2
USER CONTROLS	7-2
MAINTENANCE REQUIRED	7-2

Conveyor Stop. 7-3
 DESCRIPTION 7-3
 USER CONTROLS. 7-3
 MAINTENANCE REQUIRED 7-3

Index

Safety Features

WARNINGS SUMMARY



The following warnings apply to general operation of the bedding dispenser. Keep them in mind as you operate the unit:



- **FALL HAZARD:** *Areas located immediately around the bedding dispenser may become a fall hazard due to water drippage. For a safe environment, ensure the floor is kept clean and dry.*



- **PERSONAL HAZARD AND EQUIPMENT DAMAGE:** *Safe and efficient operation of this equipment requires scheduled preventative maintenance. Routine adjustments and replacement of parts by other than authorized maintenance personnel may result in personal injury or cause the equipment to perform to less than its capabilities.*



- **SHOCK HAZARD:** *Before performing any service or maintenance on the washer, disconnect all utilities and follow the lockout/tagout procedures to ensure safety and prevent accidental shock.*

PERSONNEL SAFETY

The following safety features have been installed to protect the operator.

Load Conveyor Clutch

The load conveyor is driven through a clutch to prevent motor failure in the unlikely event that the conveyor becomes jammed and/or obstructed. The clutch has been properly set by Getinge/Castle, Inc., upon shipment of the unit and should only be adjusted by an authorized service technician that is familiar with the equipment.

Load Hopper Safety Shut-off

The load hopper has a safety gate to prevent the operator from contacting the conveyor. Removing the grid activates this safety shut-off switch and stops both the dispenser drive and the load conveyor.

Top Access Panel Safety Shut-off

The top access panel also has an automatic safety shut-off switch. Removing the top access panel activates the safety shut-off switch and stops both the dispenser drive and the load conveyor.

LABELS

The following labels on the Control Box and Power Box alert service personnel to possible hazards.



HIGH VOLTAGE

CAUTION: To reduce the risk of electrical shock, do not remove cover. Refer servicing to qualified service personnel.

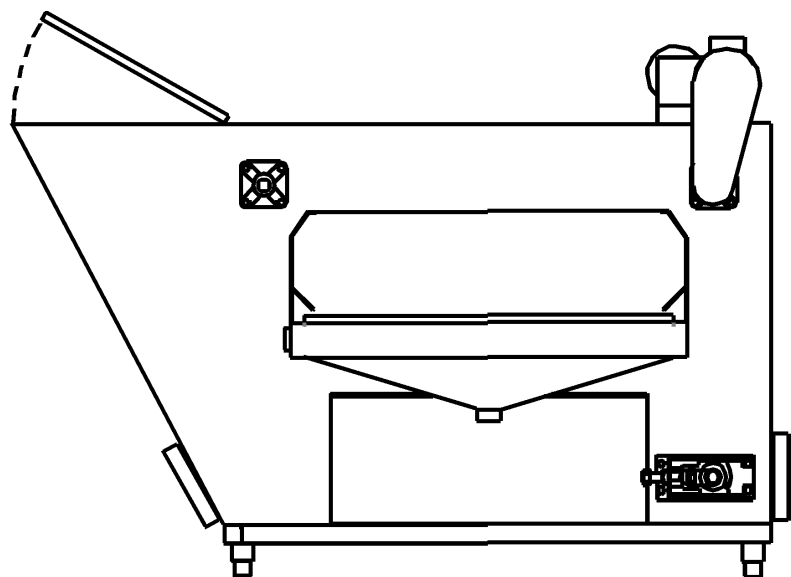


ATTENTION: Refer to accompanying documents for further information.

Section 1 General Description

INTRODUCTION

Figure 1–1. SERIES 1750 BEDDING DISPENSERS



The MTP Series 1750 bedding dispensers automatically dispense bedding into cages as each cage moves through the filling chamber. Dispensed bedding volume is adjustable to accommodate various depths and sizes of cages.

Configurations

MODEL	1730	1736	1742	1748	1754
Belt width	24"	30"	36"	42"	48"
Roller width	30"	36"	42"	48"	54"

Application

For use in research animal care laboratories and facilities to automatically dispense dry, chip type, free flowing, solid bedding into animal cages.

EXTERIOR COMPONENTS

Figure 1–2. EXTERIOR COMPONENTS (unload end)

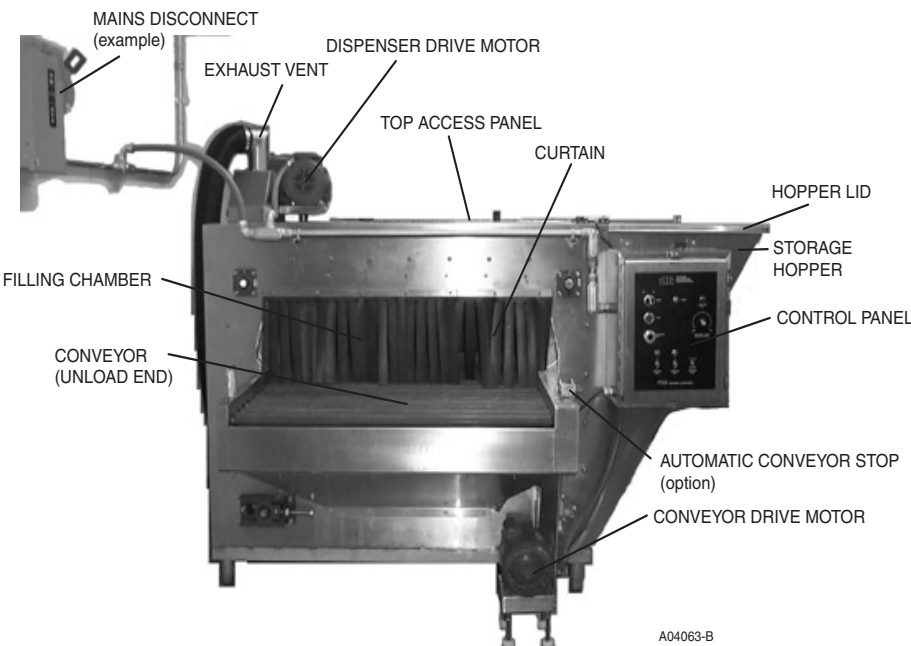
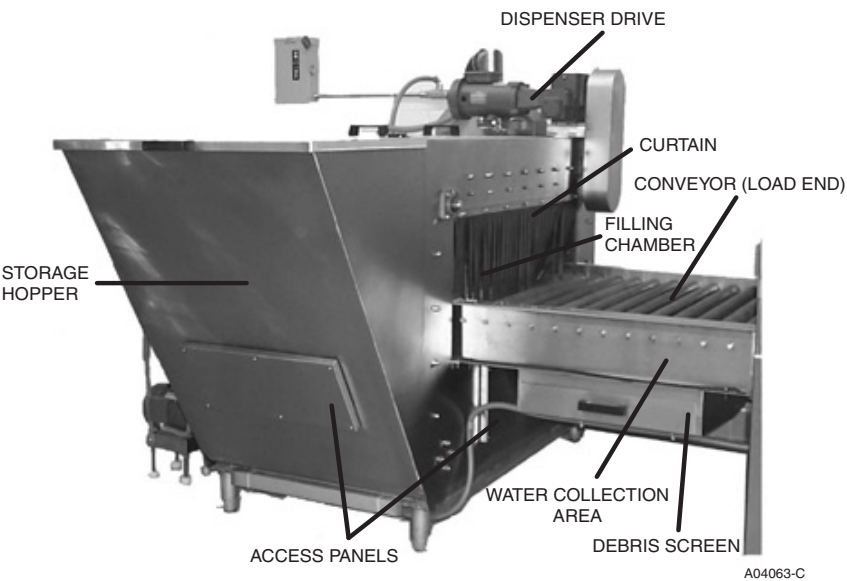


Figure 1–3. EXTERIOR COMPONENTS (load end)



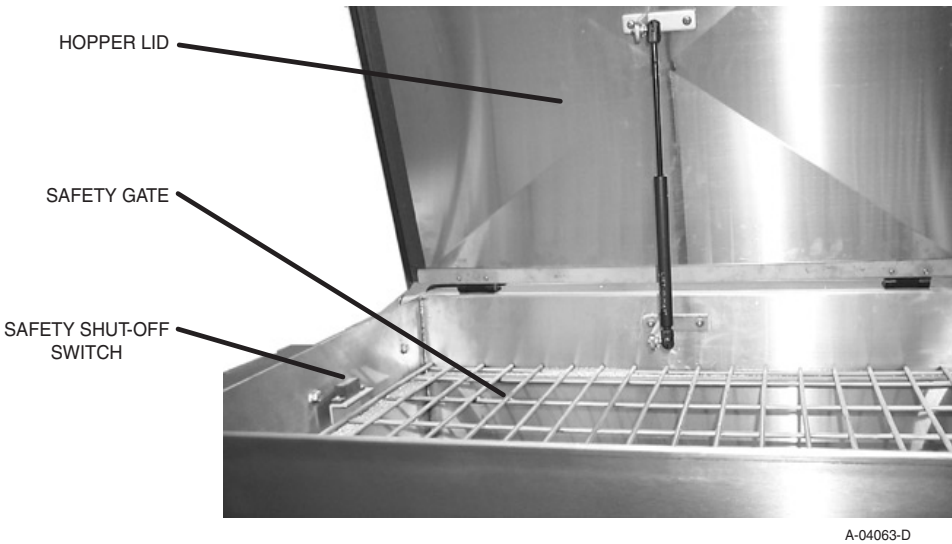
Access Panels	Allow access to the lower portions of the interior for maintenance and service.
Automatic Conveyor Stop (option)	Stops bedding dispenser operation when items reach the end of the conveyor.
Control Panel	Mounts the switches and indicators for setting and operating the bedding dispenser.
Conveyor	Load End—Moves the load from the tunnel washer into the filling chamber Unload End—Moves the load from the filling chamber to be unloaded.
Conveyor Drive Motor	Propels the conveyor.
Dispenser Drive Motor	Propels the dispenser drive (see INTERIOR COMPONENTS on page 1–4).
Exhaust Vent	Removes air, dust, and other particles from the interior of the bedding dispenser to prevent inhalation by personnel. The exhaust materials are either filtered through an in-line filter before venting, or trapped in an optional dust collector.
Hopper Lid	Covers the area for filling the storage hopper.
Mains Disconnect	Turns main power from the electrical utility lines ON and OFF.
Storage Hopper	Contains unused bedding for use in the dispenser drive.
Top Panel	Allows access to the top of the dispenser drive for maintenance and service.
Water Collection Area	A drained area under the conveyor to allow newly washed cages to drain after they exit the tunnel washer.

INTERIOR COMPONENTS

Dispenser Drive (not shown) Carries bedding from the storage hopper over the top of the filling chamber and back to the storage hopper (see Figure 1–5. on page 1–5). The operator can adjust the speed of the dispenser drive to adjust the level of fill.

Hopper Safety Gate Prevents the operator from contacting the dispenser. The operator leaves the safety gate in place to fill the hopper with bedding. The safety gate also keeps larger objects—such as pieces of packaging or large clumps of bedding—from entering the storage hopper. The safety shut-off switch stops the unit if the safety gate is not in place.

Figure 1–4. HOPPER SAFETY GATE

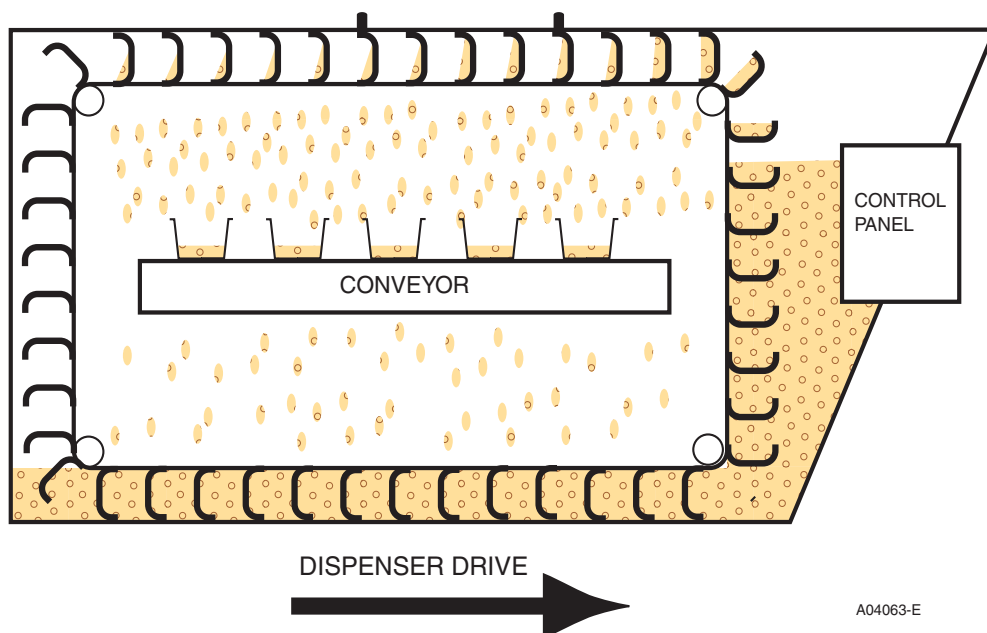


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PROCESSING DESCRIPTION

Before starting daily operation, the operator fills the storage hopper with bedding. At the start of the processing period, the operator activates the unit. Washed cages first exit the tunnel washer and travel on the conveyor to the bedding dispenser. As each cage passes through the filling chamber, the dispenser drops bedding into the cages (see Figure 1–5). To adjust the level of the bedding in the cages, the operator varies the speed of the dispenser drive. After the cages exit the filling chamber, the controls alert the operator that the process is complete. The cages are then manually unloaded from the conveyor.

Figure 1–5. THE FILLING CHAMBER (from UNLOAD END)



A04063-E

STANDARD FEATURES

All Stainless Steel Construction	The dispenser is manufactured completely from stainless steel including the conveyor cage transfer belt and the bedding filling system.
Hopper Capacity	Storage capacity is twelve cubic feet.
Easy Hopper Loading	The storage hopper is filled by dumping the bedding from the bag into the stainless steel hopper. The storage hopper has a stainless steel lid and a stainless steel safety gate. If the safety gate is removed during the operation of the unit, the cycle will stop until it is replaced. This protects the operator from the moving dispenser mechanism. This gate also filters any large pieces of bedding which may enter the storage hopper.
Automatic Dispensing	As washed cages pass through the filling chamber, bedding is automatically dispensed into the cages. Bedding levels can be altered by changing the speed of the stainless steel filler conveyor belt (dispenser drive).
Operator Control Panel	A stainless steel operator's control panel containing switches and indicators is mounted on the unit.
Powered Roller Conveyor System	The cages are transported through the filling chamber by powered stainless rollers. The belt powered rollers are on 3" centers and are provided with stainless steel roller bearings. The roller system has no pinch points and will not carry the bedding out of the dispensing section.
Water Collection Area With Debris Screen	At the load end is a stainless steel water collection area that drains the excess water from the cages. Provided is a stainless steel removable drawer debris screen to collect any item that may have fallen onto the load area of the bedding dispenser.
Cleanout Access Ports	Provided are large access panels on two sides of the lower hopper to aid in cleaning.
Exhaust	The unit has an exhaust vent and a washable in-line filter.



-
- *The exhaust vent cannot be tied into the exhaust vent system from the washing equipment. The exhaust from the bedding dispenser contains dust particles and must be kept dry through the entire exhaust system.*
 - *The washable in-line filter is not included if the optional Dust Collection System is selected.*
-

OPTIONS

Automatic Conveyor Stop

A photoelectric switch at the end of the unload end conveyor automatically stops the conveyor drive when an item reaches the end of the conveyor.

Dust Collection System

Connected to the exhaust from the bedding dispenser to remove dust generated by the filling operation and to eliminate the need for connection to building exhaust. System is interwired with the bedding dispenser and equipped with an On/Off switch mounted on the control panel.

Right Service Side Installation

When this option is selected, the unit is installed with the service area and operating end control terminal to the right of the load end of the unit.

Standards And Codes

Washer can meet the applicable requirements of:

- UL—Main Control Panel is fully inspected and labeled in accordance with the UL standards
- Seismic Requirements per California Administrative Code

Section 2 The Control Panel

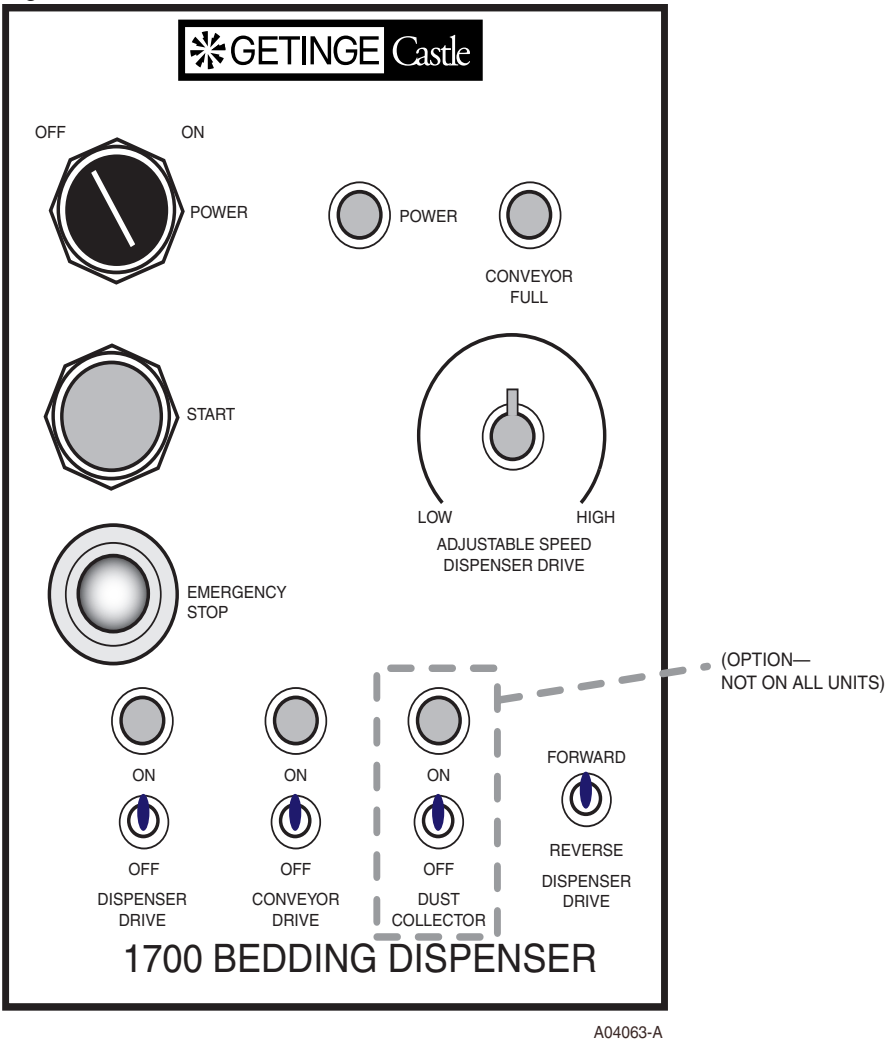
INTRODUCTION

Using the control panel, the operator:

- Selects processing settings.
- Starts and stops the bedding dispenser.
- Knows when to unload the conveyor.
- Adjusts the level of bedding filling the cages.
- Clears jams in the dispenser.
- Turns the dust collector (option) on and off.

CONTROL PANEL

Figure 2–1. CONTROL PANEL



Switches

POWER

Turns power to the unit ON and OFF.
(controls only— does not disconnect equipment from AC voltage)

START

Starts the unit: whichever items are switched on by the toggles below-- typically the conveyor and the dispenser.

EMERGENCY STOP

Stops the conveyor and the dispenser.

ADJUSTABLE SPEED—DISPENSER DRIVE

Controls the speed at which bedding is dispensed.

- SLOW—dispenses less bedding into each cage
- FAST—dispense more bedding into each cage

DISPENSER DRIVE ON/OFF

Controls power to the dispenser drive.

- ON—the indicator lights and bedding is continually dispensed.
- OFF—no bedding is dispensed.

CONVEYOR DRIVE ON/OFF

Controls power to the load conveyor.

- ON—the indicator lights and the conveyor moves at the selected speed.
- OFF—the conveyor does not move.

DISPENSER DRIVE REVERSE/FORWARD

Controls the direction of the dispenser drive. Remains on FORWARD, unless there is a jam (see Section 5, Troubleshooting).

To set to REVERSE, press and hold the switch.

To return to FORWARD, release the switch.

- FORWARD, bedding is continually dispensed from the hopper.
- REVERSE, no bedding is dispensed. The dispenser moves backward.

DUST COLLECTOR (option)

This switch controls the dust collecting system.

- When ON, the indicator lights and the dust collector removes excess dust from the exhaust.
- When OFF, the dust collector does not function. Usually set to ON.

Indicators

POWER

Lights when power to the unit is ON.

CONVEYOR FULL

Lights when the conveyor is full. Lights when the load activates the automatic conveyor stop (option). To continue processing, the operator must remove the processed items.

DISPENSER DRIVE ON

Lights when the dispenser drive is ON.

CONVEYOR DRIVE ON

Lights when the conveyor drive is ON.

The Control Panel

DUST COLLECTOR ON (option)

Lights when the dust collector is ON.

EMERGENCY STOP

Lights when EMERGENCY STOP is pressed.

Section 3 Operating Instructions

To fill cages, the dispenser is operated with a tunnel washer. As each cage passes through the filling chamber, bedding is dispensed into it. Levels can be adjusted by varying the speed of the dispenser drive. After the cages exit the unit, they are manually unloaded from the unit.

This section has the following parts:

- PREPARING
- SETTING
- OPERATING
- EMERGENCIES

PREPARING

Daily Checklist

Before operating the bedding dispenser each day:



Danger of falling. The surrounding floor may be slippery with spilled bedding. When around the bedding dispenser, walk carefully to maintain balance and avoid injurious falls.

1. Check the hopper and refill it if necessary (see below, *Refilling The Hopper*).
2. Clean the door apron(s) with a damp cloth.
3. Clean the debris screen in the water collection area.

Compatible Bedding Types*

The bedding dispenser uses dry, chip type, free flowing, solid bedding. Some examples are listed below:

wood shavings	hard wood chip	soft wood chip
cob materials	paper (chip type)	pelletized

**Bedding types must be dry and free flowing.*

Refilling The Hopper

Fill the unit with bedding by dumping bedding into the hopper. Be sure to fill the unit to capacity.

1. Open the hopper lid. Keep the safety gate in place.
2. Fill the hopper with bedding.

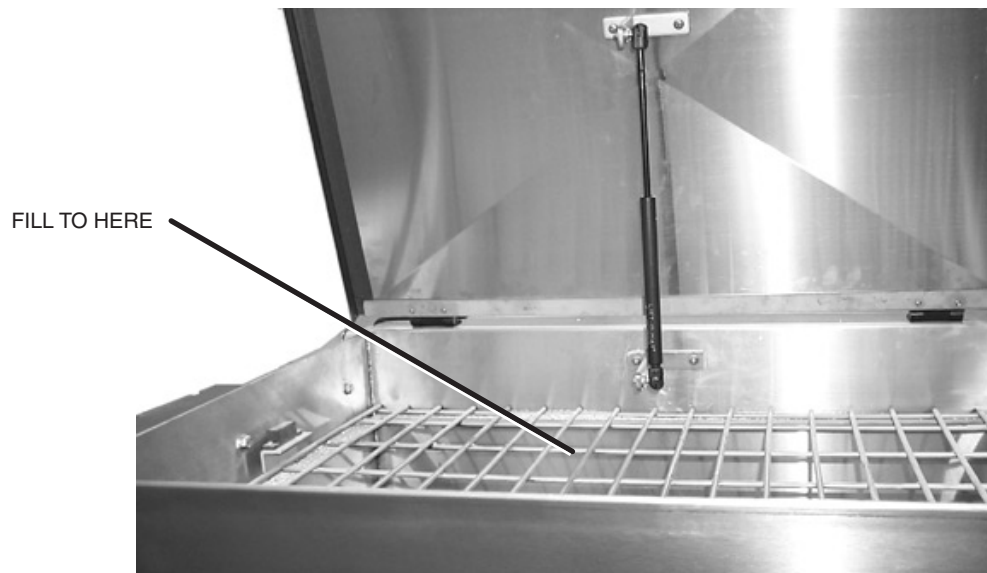


NEVER OVERFILL THE HOPPER CAPACITY.

Otherwise the dispenser drive may jam. If this occurs, see "TO CLEAR THE DISPENSER DRIVE" on page 5-2.

3. Continue to fill the hopper until the level of bedding reaches the bottom of the safety gate (see Figure 3-1).

Figure 3-1. FILLING THE HOPPER



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SETTING

Cages For Use Today

Objective: Fill the cages with fresh bedding for immediate use.

Typical Settings For Use Today—Series 1750

CONTROL	TYPICAL SETTING
ADJUSTABLE SPEED DISPENSER DRIVE	ADJUST: LOW=lower level of bedding HIGH=higher level of bedding
DISPENSER DRIVE (on/off)	ON
CONVEYOR DRIVE (on/off)	ON
DISPENSER DRIVE (direction)	FORWARD
DUST COLLECTOR (option)	ON

Cages For Use Later

Objective: Do not fill the washed cages with bedding. Stack and store them until needed.

Typical Settings For Use Later—Series 1750

CONTROL	TYPICAL SETTING
ADJUSTABLE SPEED DISPENSER DRIVE	not applicable
DISPENSER DRIVE (on/off)	OFF
CONVEYOR DRIVE (on/off)	ON
DISPENSER DRIVE (direction)	FORWARD
DUST COLLECTOR (option)	OFF

OPERATING

Start-up

1. Load the hopper with bedding
(see “Refilling The Hopper” on page 3–2).
2. Turn ON the mains disconnect switch.
3. On the control panel, turn ON the POWER switch.

Operation

On the control panel:

1. Turn ON the CONVEYOR DRIVE.



As soon as the DISPENSER DRIVE is ON, bedding will travel from the hopper to be dropped onto the conveyor. Do not turn ON the DISPENSER DRIVE until you are ready for this to occur.

2. Set the DISPENSER DRIVE
(see “SETTING” on page 3–3).
 - ON to fill the cages with bedding.
 - OFF to let the cages pass through without filling.
3. Press START.
4. Adjust the speed of the DISPENSER DRIVE as required.
 - For a lower level of bedding in each cage, turn toward LOW.
 - For a higher level of bedding in each cage, turn toward HIGH.

CONVEYOR FULL

When CONVEYOR FULL lights on the control panel:

- the conveyor stops
 - the dispenser drive stops
 - the tunnel washer conveyor stops
1. Remove processed items from the conveyor.
 2. Conveyors and the dispenser drive resume automatically.

End Of Daily Operation

After daily operation, turn OFF the POWER switch.

EMERGENCIES

Emergency Stop

In an emergency, stop the bedding dispenser immediately. Use either procedure below.

EMERGENCY STOP

1. Press EMERGENCY STOP.
 - The bedding dispenser ceases operation.
 - The conveyor of the tunnel washer stops.
 - An alarm sounds at the load end of the tunnel washer.
2. To restart the bedding dispenser:
 - a. Pull out EMERGENCY STOP to reset the switch.
 - b. Press START.

— OR —

POWER

1. Turn OFF the POWER switch.
 - The bedding dispenser ceases operation.
2. To restart the bedding dispenser:
 - a. Turn ON the POWER Switch.
 - b. Press START.

Emergency Power Shutoff

In an emergency, it may be necessary to remove electrical power from the bedding dispenser. All operators should know the location of the mains disconnect circuit breaker at the bedding dispenser site.

NOTE ►

The POWER switch turns OFF the controls only; it does not remove all power from the bedding dispenser.

TURNING OFF ELECTRICAL POWER

Turn OFF power to the bedding dispenser at the mains disconnect circuit breaker (see Figure 1–2. EXTERIOR COMPONENTS (unload end)).

Section 4 Maintenance

GENERAL MAINTENANCE SCHEDULE

The customer is responsible for these maintenance items at the intervals specified. Optional items may require additional maintenance. Refer to your Customer Manual for this information.

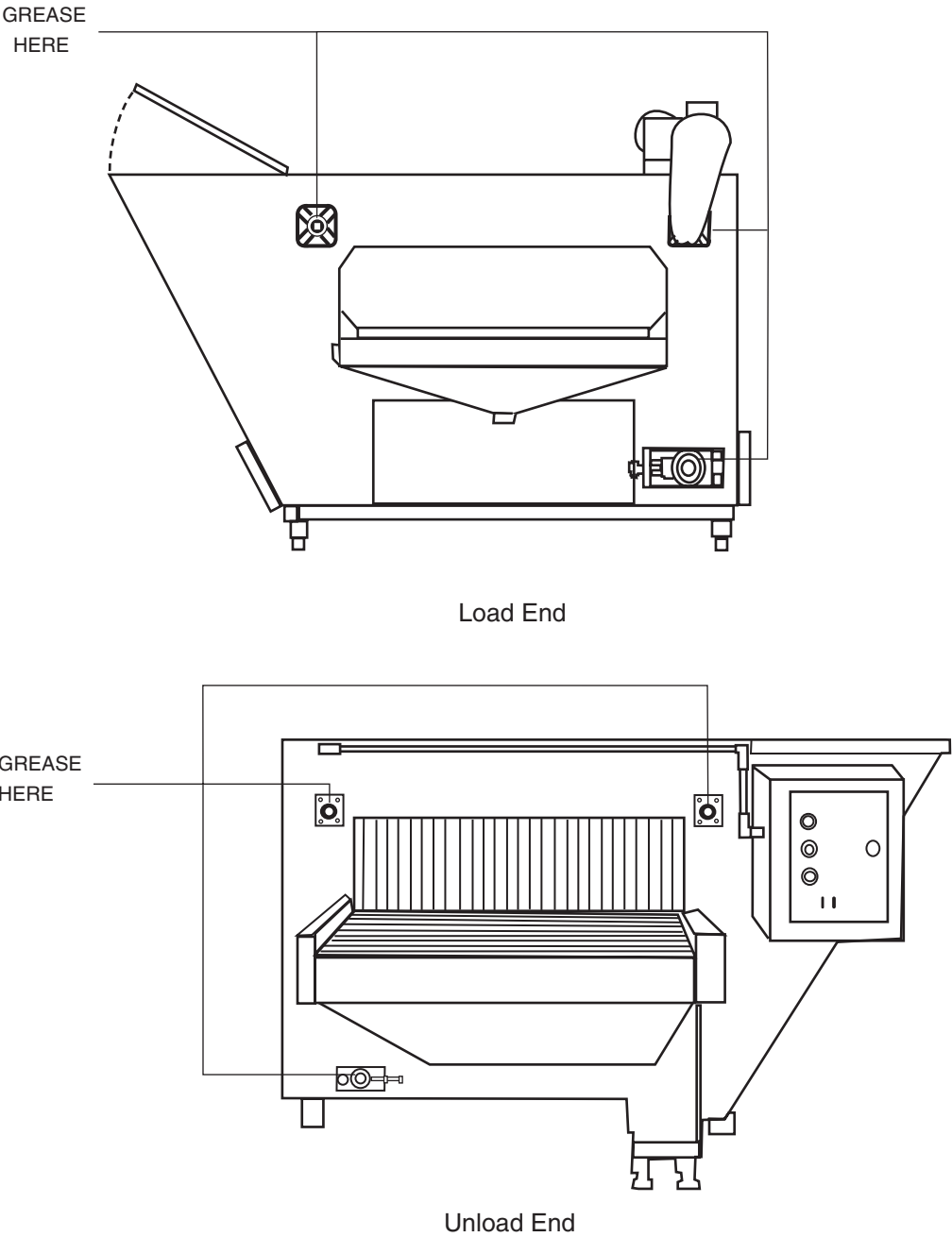
PERFORMANCE ASSURANCE PLAN

Preventive maintenance performed by factory-trained service representatives, using authorized parts and service techniques, is recommended. Recognizing symptoms of potential trouble and making corrections immediately is less costly and time consuming than repairing damaged equipment. Our Performance Assurance Plan offers scientific maintenance, not merely repair service.

For quality service on this equipment and information on our Performance Assurance Plan, contact Getinge/Castle, Inc. 1777 East Henrietta Road, Rochester, NY 14623-3133 or call 1-800-950-9912.

SERVICE REQUIRED	HOW OFTEN?	PROCEDURE
Ensure proper bedding supply.	As needed	<ol style="list-style-type: none">1. Lift the hopper lid and examine the bedding level.2. Fill the hopper with bedding if necessary.
Inspect the fill level of the dust collector <i>(if dust collector option is installed).</i>	Daily	<ol style="list-style-type: none">1. Turn OFF the power to the dust collector.2. Check the level of debris in the lower bag.3. Empty the dust collector if necessary.
Clean the washable inline filter <i>(if dust collector option is not installed).</i>	Daily	<ol style="list-style-type: none">1. Prepare a bucket of water large enough to fit the inline filter.2. Remove the inline filter using the handle.3. Immerse the inline filter in the bucket.4. Agitate the inline filter in the water to remove dirt.5. Air-dry the inline filter.6. Replace the inline filter in the line.
Apply lubricant to the grease fittings.	Six (6) Months	Apply one shot of all-purpose grease to each of the grease fittings (see Figure 4–1.)

Figure 4-1. GREASE FITTINGS



A04063-F

RECOMMENDED SPARE PARTS LIST

Consumable Stock

DESCRIPTION	PART NO.
Bedding	See “Compatible Bedding Types*” on page 3-1.
Lustre Stainless Steel Cleaner/Polish (13 oz.)	61301600026
Door curtain (1 per door)	
Filter bags for Dust Collector (option)	

Spare Parts

Refer to the Customer Manual for a list of recommended spare parts. The electrical schematic is also in the Customer Manual.

Section 5 Troubleshooting

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
No power to the control panel.	<ol style="list-style-type: none"> 1. Mains disconnect is OFF. 2. Control panel fuse is blown. 3. POWER light bulb is out. 4. POWER switch is faulty. 	<ol style="list-style-type: none"> 1. Ensure that the mains disconnect is ON. 2. Check the control panel fuse. Replace if needed. 3. Check the POWER light bulb. Replace if needed. 4. Check the POWER switch. Replace if needed.
The unit does not dispense bedding.	Obstruction in dispenser drive.	Check dispenser drive. Clear if needed (see "TO CLEAR THE DISPENSER DRIVE" on page 5-2).
Conveyor does not run.	<ol style="list-style-type: none"> 1. At least one safety switch is open. 2. Conveyor is obstructed. 3. Clutch is loose. 4. Motor drive malfunction. 	<ol style="list-style-type: none"> 1. Check the safety switches (hopper lid, hopper safety gate, top panel, access panels). Ensure that the safety gate is in place, and that lids and panels are closed. <p>NOTE ▶ <i>When both hopper safety switches are closed, the light on control relay #1— inside the control box—is lit.)</i></p> <ol style="list-style-type: none"> 2. Check for obstruction. Remove the obstruction if needed. 3. Tighten the clutch. <p>NOTE ▶ <i>The clutch has been set properly by the manufacturer. It should only be adjusted by an authorized service technician.</i></p> <ol style="list-style-type: none"> 4. Check the motor drive. Replace if needed.
Dust collector is inoperable.	<ol style="list-style-type: none"> 1. Obstruction in collecting nozzles. 2. Wiring to the dust collector is faulty. 3. GFI tripped. 4. Circuit breaker tripped. 	<ol style="list-style-type: none"> 1. Check for obstruction in collecting nozzles -- remove obstruction if needed. 2. Check the wiring. Repair if needed. 3. Check and reset. If it trips again, call an authorized service technician. 4. Check and reset. If it trips again, call an authorized service technician.

TO CLEAR THE DISPENSER DRIVE

1. Press and hold the DISPENSER DRIVE switch from FORWARD to REVERSE.
2. Run the unit in reverse for about ten seconds.
3. Release the DISPENSER DRIVE switch so that it switches back to FORWARD.
4. Wait for the drive to stop completely.
5. Run the unit in forward for about ten seconds.
6. If this doesn't clear the dispenser drive, turn OFF the POWER switch. Then call an authorized service technician.

Section 6 Installation Instructions

INTRODUCTION

This section is for convenient customer reference. It summarizes information used for installing the bedding dispenser.

Official agreements, pertinent drawings, and related documents are provided separately to the customer by authorized personnel.

INSTALLATION OPTIONS

- Unload & Uncrate by Installation Specialists from GETINGE/Castle, Inc.
- Reassembly by Installation Specialists from GETINGE/Castle, Inc.
- Supervision of Installation by Installation Specialists from GETINGE/Castle, Inc.

FACILITY REQUIREMENTS

The company and the customer typically specify and agree on these requirements:

- Equipment Location
- Minimum Door Opening en route to Equipment Room
- Corridor Width(s)
- Ceiling Height
- Lowest Ceiling
- Obstacles in Equipment Room
- Equipment Room Walls (type)
- Barrier Wall Attachment
- Maximum Crate Size
- Elevator (availability)
- Loading Dock (availability)
- Fork Truck (availability)

TECHNICAL DATA

Service Requirements

The following utilities and services have been furnished by others in accordance to referenced drawings. Electrical services were to be supplied with fused disconnect switches, all exhaust ducts were to be supplied with manual dampers. The utility requirements specified reflect dynamic conditions required at the dispenser.

SERIES 1750 UTILITIES AND SERVICE REQUIREMENTS						
	MODEL 1730	MODEL 1736	MODEL 1742	MODEL 1748	MODEL 1754	NOTES
TUNNEL WASHER BELT SIZE	24"	30"	36"	42"	48"	
ELECTRICAL DISPENSER ONLY						NOTE 1
1 Ph, 60 Hz, 120 V, 3 Wire	20.0 Amp #12 Ga. Wire	20.0 Amp #12 Ga. Wire	20.0 Amp #12 Ga. Wire	20.0 Amp #12 Ga. Wire	20.0 Amp #12 Ga. Wire	
ELECTRICAL DISPENSER W/ DUST COLLECTION SYSTEM						NOTE 1
1 Ph, 60 Hz, 120 V, 3 Wire	36.0 Amp #10 Ga. Wire	36.0 Amp #10 Ga. Wire	36.0 Amp #10 Ga. Wire	36.0 Amp #10 Ga. Wire	36.0 Amp #10 Ga. Wire	
POWERED EXHAUST						NOTE 2
Vent Size	4 ½" OD.	4 ½" OD.	4 ½" OD.	4 ½" OD.	4 ½" OD.	
Flow Rate	650 CFM	650 CFM	650 CFM	650 CFM	650 CFM	
WEIGHTS						
Operational - Lbs.	1,500	1,700	1,900	2,100	2,200	
Shipping - Lbs.	2,000	2,100	2,400	2,500	2,700	
EQUIPMENT DRAWINGS (generic)						
Left Side Service	EQ00459A	EQ00143B	EQ00101C	EQ00585A	EQ00460A	
Right Side Service	EQ00436B	EQ00437B	EQ00438B	EQ00584A	EQ00447B	

General Notes On Utilities

NOTE 1—ELECTRICAL CONNECTION

A fused disconnect switch is required, and provided by others. The disconnect switch must be able to be locked and tagged. Location of the disconnect to be per local electrical codes.

NOTE 2—EXHAUST SYSTEM

The exhaust vent cannot be tied into the exhaust vent system for the washing equipment. The exhaust from the bedding dispenser has dust particles and must be kept dry through the entire exhaust system.

Powered Exhaust connections are not required when the optional Dust Collection System is selected.

* All specifications are subject to change without notice

UNCRATING AND INSPECTION

Uncrating & Equipment Inspection

Before signing the Bill of Lading and accepting the equipment, inspect the outside of the crate for any visible damage. If any damage has occurred note it on the Bill of Lading.

After accepting the equipment, if any visible damage is apparent, notify the carrier's insurance and process a claim. At this point it is good practice to take pictures of the crate to back up the claim if internal damage has occurred.

Move the crate(s) to the general area where the machine will be set in place. Uncrate the outside of the machine and inspect the contents of the equipment. If damage is apparent, take pictures of the areas.

Upon completion of inspection, set the machine in the spot where the equipment will be connected to the facility's services. Locate the four (4) support legs under the machine. Using a floor pallet lift, (while the machine is still on the lower skid) raise the machine up four inches and place a 4 x 4 x 4 block under each of the support legs. Dismantle and remove the lower skid from under the machine. Raise the machine up using the pallet lift, remove the 4" blocks and lower the machine onto the floor. Make sure that the location of the equipment has at least a 30" clearance around the machine control panel for general maintenance.

INSTALLATION



Installation of equipment should only be done by factory authorized representatives.

Once your machine has been inspected for damage and properly uncrated, you are now ready to install the equipment. The following should be performed in sequence to insure proper installation and operation of your equipment.

Equipment Location

Ensure that your equipment is located as defined by the Equipment Drawings and Room Layout Drawings provided, with adequate clearance for maintenance and proper distance from utility connections. Check that:

- ☐ Crates are in the room
- ☐ Clear access is available for installation personnel
- ☐ Lighting and 40 AMP/110 volt power are present within 25 feet of the installation area
- ☐ Heating/Air Conditioning is available in the installation area.
- ☐ The floor has been coated/painted under the unit (if applicable).

Leveling The Machine

Level the machine $\pm 1/16$ " per each four foot length using a bubble level. Start at one of the sides and check the level from front to back and make adjustments. Move to the other side of the machine and check from right to left and make adjustments. The legs are designed to raise or lower the equipment ± 1 ". Because of the slope of the floor it may be necessary to shim under the legs to achieve the leveling tolerance.

Utilities

Check to insure that the following utility requirements are as specified:

- ☐ Vent connections and flow rates are available as specified on the equipment drawings.

Electrical

- ☐ Verify the electrical supply voltage is as specified on the equipment drawings and as noted on the nameplate on the machine.
- ☐ Ensure the equipment is provided with a fused disconnect switch within 10–15 feet from the unit's control panel.

STARTUP

To ensure proper machine startup, follow these steps:

1. Ensure that all utilities are properly connected to the machine and tightened.
2. Verify all incoming power supplied by the customer is as called out on the equipment specifications.
3. Turn ON the mains disconnect.
4. Turn ON the POWER switch on the control panel.

The POWER indicator lights.

If not, check the fuse on the control panel and the power supply to the control box.

5. Check the motors to ensure they are in proper rotation.
6. Ensure that the dust collector is attached and properly wired to the unit.

CHECK-OUT

Fill the hopper

1. Open the hopper lid. Keep the safety gate in place.
2. Partially fill the hopper with bedding.



NEVER OVERFILL THE HOPPER CAPACITY.

Otherwise the dispenser drive may jam. If this occurs, see "TO CLEAR THE DISPENSER DRIVE" on page 5-2.

Run the unit



1. On the control panel, turn ON the CONVEYOR DRIVE.

As soon as the DISPENSER DRIVE is ON, bedding will travel from the hopper to be dropped onto the conveyor. Do not turn ON the DISPENSER DRIVE until you are ready for this to occur.

2. On the control panel, turn ON the DISPENSER DRIVE.
 - Turn this switch ON to fill the cages with bedding.
 - Keep this switch OFF to let the cages pass through without filling.
3. On the control panel, turn ON the DUST COLLECTOR (option).
4. Press START.
5. Adjust the speed of the DISPENSER DRIVE.

6. Turn OFF the POWER switch. Turn OFF the mains disconnect.
7. If the bedding dispenser functions properly, this check-out procedure is concluded. If it does not function properly, contact authorized service personnel.

Section 7 Options

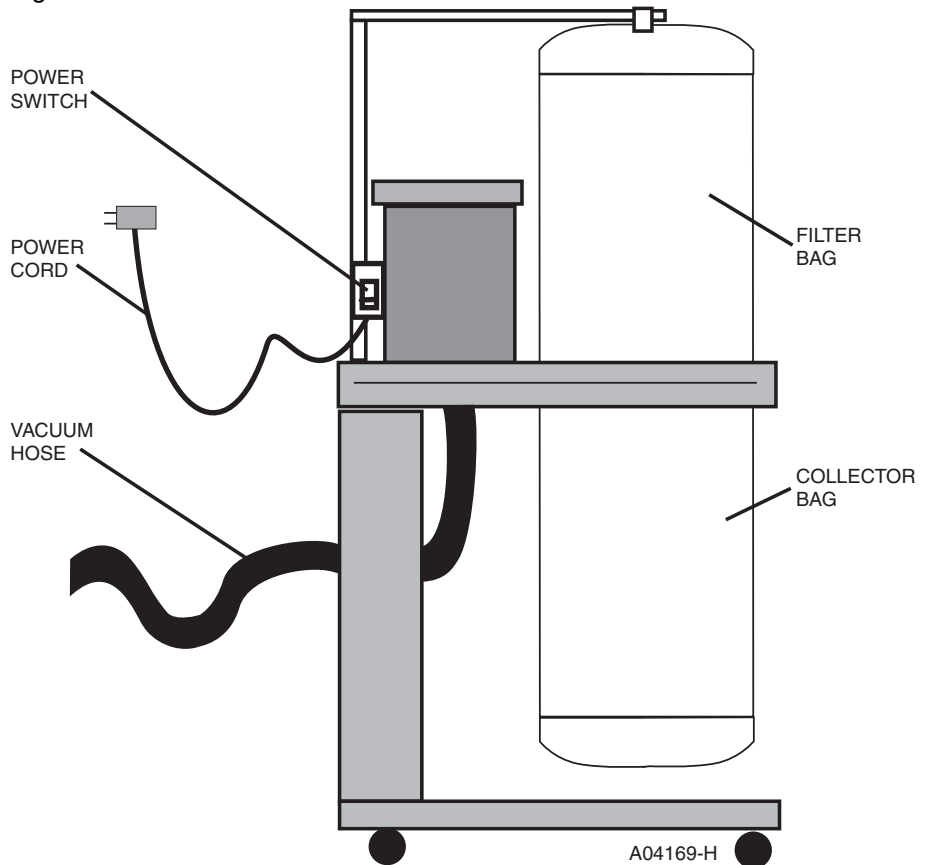
INTRODUCTION

The Series 1750 offers options to meet each customer's specific needs. This chapter lists the most commonly selected options. Your washer may not have the options listed, and could have other specific options. For the options selected with your washer, please refer to your Customer Manual.

MOST COMMON OPTIONS

Dust Collection System

Figure 7–1. DUST COLLECTION SYSTEM



DESCRIPTION

Removes dust generated by the filling operation and airborne particles from the area surrounding the bedding dispenser. Eliminates the need for connection to building exhaust. System consists of a minimum 1.0 HP blower and 36 gallon container connected to the vent of the dispenser.

Power switch—Must be ON to operate.

Power cord—Connected to the GFI receptacle on the side of the bedding dispenser.

Vacuum hose—Must be connected to the bedding dispenser exhaust.

USER CONTROLS

None.

MAINTENANCE REQUIRED

**As
needed**

Remove and clean the bags:

1. Remove the retainer band from the filter bag.
2. Remove the filter bag. This exposes an opening.
3. Remove the collector bag through the opening.
4. Clean and replace the bags.

Conveyor Stop

DESCRIPTION

The conveyor stop uses a photoelectric switch and reflector to stop the conveyor when cages have reached the end of the unload end conveyor.

USER CONTROLS

None.

MAINTENANCE REQUIRED

Clean the reflector with a damp cloth daily.

Index

A

Access panels, 1–3
 Access ports, 1–6
 ADJUSTABLE SPEED—DISPENSER DRIVE control, 2–3
 Apron
 (*figure*), 1–2
 replacement part, 4–3
 Automatic conveyor stop (option), 1–3

B

Bedding, compatible types, 3–1
 Bill of Lading, noting damage on, 6–3

C

Capacity, hopper, 1–6
 Chamber, filling
 (*figure*), 1–5
 Checklist of daily tasks, 3–1
 Check-out, at installation, 6–5
 Cleaning, 1–6
 Clutch, load conveyor, vii
 Configuration options, 1–1
 Consumable stock, 4–3
 Control panel, 1–3, , 1–6
 Control relay #1 (CR1), and safety switches, 5–1
 Conveyor, 1–3
 Conveyor drive motor, 1–3
 CONVEYOR DRIVE ON light, 2–3
 CONVEYOR DRIVE ON/OFF switch, 2–3
 CONVEYOR FULL, 3–4
 CONVEYOR FULL light, 2–3
 Conveyor stop, automatic, 1–7

Conveyor system, 1–6

D

Daily checklist, 3–1
 Data, technical, 6–2
 Debris screen, 1–6
 (*figure*), 1–2
 Dispenser drive, 1–4, , 1–6
 (*figure*), 1–5
 clearing a jam, 5–2
 Dispenser drive motor, 1–3
 DISPENSER DRIVE ON light, 2–3
 DISPENSER DRIVE ON/OFF switch, 2–3
 DISPENSER DRIVE REVERSE/FORWARD switch, 2–3
 Door gasket
 cleaning, 3–1
 Drawings, equipment numbers, 6–2
 Dust collection system, 1–7, , 7–2, , 7–3
 Dust collector
 inspect the fill level, 4–1
 DUST COLLECTOR ON light (option), 2–4
 DUST COLLECTOR switch, 2–3

E

Electrical power
 turning off, 3–5
 EMERGENCIES
 emergency power shut off, 3–5
 emergency stop, 3–5
 EMERGENCY STOP light, 2–4
 EMERGENCY STOP switch, 2–2
 End Of Daily Operation, 3–4
 Exhaust, 1–6
 Exhaust vent, 1–3

F

- Fall hazard, vii
- Features
 - standard, 1–6
- Filling chamber, 1–5
- Filling the hopper, 3–2
- Filter, exhaust inline (*only if no dust collector*), 1–6
 - cleaning, 4–1

G

- Gate, hopper safety, 1–4
 - safety shut-off switch on handle, 1–4
- Grease fittings
 - (*figure*), 4–2
 - lubricate, 4–1

H

- Hopper
 - refilling, 3–2
- Hopper lid, 1–3
 - safety shut-off, vii
- Hopper safety gate, 1–4

I

- Injury, personal, vii

L

- Leveling, 6–4
- Load hopper
 - safety shut-off, vii

M

- Mains disconnect switch, 1–3
 - (*figure*), 1–2
- Maintenance
 - Performance assurance plan (PAP), 4–1
 - schedule, 4–1
- Maintenance contract. *See Performance Assurance Plan*

O

- Operation, 3–4
- Options
 - automatic conveyor stop, 1–7
 - dust collection system, 1–7
 - Most common, 7–2
 - right service side installation, 1–7
- Options, configuration, 1–1

P

- Part numbers
 - air-in filter, 4–3
 - door gasket, 4–3
 - Lustre Stainless Steel Cleaner/Polish, 4–3
- Parts, spare, 4–3
- Performance assurance plan, 4–1
- Performance assurance plan (PAP), 4–1
- Personal hazard and equipment damage, vii
- POWER light, 2–3
- POWER switch, 2–2

R

- Refilling the hopper, 3–2
- REVERSE/FORWARD
 - see* DISPENSER DRIVE REVERSE/FORWARD switch
- Right service side installation, 1–7

S

- Safety, vii
- Seismic requirements, 1–7
- Settings
 - For use later, 3–3
 - For use today, 3–3
- Shock hazard, vii
- Spare parts, 4–3
- START switch, 2–2
- Start-up, 3–4
- Startup, at installation, 6–5
- Storage hopper, 1–3

T

Technical data. See *Data, technical*

Top panel, 1–3

Troubleshooting, 5–1

Tunnel washer, linked to the bedding dispenser,
3–1

U

UL standards, 1–7

Uncrating, 6–3

Use of the bedding dispenser, 1–1

Utilities and services, 6–2

W

Water collection area, 1–3, , 1–6

Weights, 6–2



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